

Patent Claims:

- 1     1.     Gas turbine component, namely static gas turbine component,  
2           especially for an aircraft engine, characterized in that  
3           the same is formed at least region-wise of metal foam.
- 1     2.     Gas turbine component according to claim 1, characterized  
2           in that the same forms a housing structure (19, 24, 26).
- 1     3.     Gas turbine component according to claim 2, characterized  
2           in that, the housing structure (19, 24, 26) is formed at  
3           least region-wise or section-wise of metal foam (20),  
4           whereby the section or region of the housing structure  
5           formed of metal foam is connected with at least one section  
6           or region embodied as a carrier.
- 1     4.     Gas turbine component according to claim 3, characterized  
2           in that the section or region formed of metal foam (20) is  
3           positioned in a sandwich-like manner between two  
4           plate-shaped carriers (21, 25) and connected therewith.
- 1     5.     Gas turbine component according to claim 1, characterized  
2           in that the same forms an intake lining (27, 31, 32, 34).

- 1 6. Gas turbine component according to claim 5, characterized  
2 in that the intake lining (27, 31, 32, 34) of metal foam  
3 (28) is fixedly or rigidly connected with at least one  
4 carrier (29).
- 1 7. Gas turbine component according to claim 6, characterized  
2 in that the or each carrier (29) comprises openings or  
3 bored holes (35), and that the metal foam (20) of the  
4 intake lining (34) is embodied open-pored, so that both the  
5 or each carrier as well as the metal foam can be  
6 flowed-through for the cooling thereof.
- 1 8. Gas turbine component according to claim 1, characterized  
2 in that the same forms a pipe line system (38, 41, 42,  
3 44, 47).
- 1 9. Gas turbine component according to claim 8, characterized  
2 in that the pipe line system (38, 41, 42, 44, 47) is formed  
3 by at least one closed-walled pipe (39), whereby the or  
4 each pipe (39) is surrounded by metal foam (40).
- 1 10. Gas turbine component according to claim 8 or 9,  
2 characterized in that the pipe line system (38, 41, 42, 44)  
3 comprises a closed-walled pipe (39) which is surrounded by  
4 metal foam.

1 11. Gas turbine component according to claim 9 or 10,  
2 characterized in that a securing means (43) is integrated  
3 in the metal foam (40).

1 12. Gas turbine component according to claim 10, characterized  
2 in that the pipe (39) is embodied double-walled, whereby  
3 metal foam (40) is arranged between the two concentric  
4 closed pipe walls (45, 46).